Monthly Divisional Report

New Jersey State Highway Department

February 1961

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Form #AD-39

Reports - Monthly

MONTHLY DIVISIONAL REPORT

Month of February 19 61

Division: Accounting & Administrative Services

Bureau: Office of Comptroller &
Bureau of Auditing & Accounting

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The Comptroller attended various meetings and conferred with Bureau Heads anent routine operations of the Division of Accounting and Administrative Services.

Supplemental Appropriation request for the current fiscal year 1960-1961 was prepared on the basis of increased expenditures because of the excessive snow, ice and freezing conditions.

Approximately 3600 invoices were passed for payment, covering materials, supplies, contractor's estimates, right of way invoices, etc. A great many of these invoices were in connection with snow removal operations.

The Chief Accountant attended a conference in Harrisburg, Pennsylvania, on the Penn-Jersey Transportation Study in connection with the billing procedure.

Warrants were drawn for 61 County and Municipal Aid payments amounting to $1,251,594.36; funds were certified on contracts, price agreements, transfer forms, etc.

In the Cost Accounting Section of the Bureau of Auditing and Accounting inventory in outside garages was completed.

Cyrus Card
Comptroller

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Form #AD-39

MONTHLY DIVISIONAL REPORT Month of FEBRUARY 19 61

Division: ACCOUNTING AND ADMINISTRATIVE SERVICES
Bureau: OFFICE SERVICES

OFFICE SERVICES

WORK DURING THE LAST MONTH HAS BECOME QUITE HEAVY IN VOLUME. MOSTLY REQUESTS FOR OFFICE FURNITURE AND MACHINES AND ADDITIONAL TELEPHONE SERVICES.

PRELIMINARY ARRANGEMENTS ARE BEING MADE TO MOVE BOGOTA RIGHT OF WAY OFFICES TO THE NEWARK OFFICE BUILDING. IN THIS CONNECTION A TIE-LINE WAS CONSIDERED DESIRABLE TO REDUCE THE COST OF TOLL CALLS FROM THE NEWARK OFFICE TO THE TRENTON OFFICE. ARRANGEMENTS ARE NOW BEING MADE WITH THE TELEPHONE COMPANY TO INSTALL A 2 POSITION BOARD IN THE NEWARK OFFICE BUILDING WITH THE SERVICES OF 2 TELEPHONE OPERATORS INSTEAD OF 1.

SURVEY WAS MADE OF THE HADDONFIELD OFFICE IN REGARDS TO OFFICE FURNITURE REQUESTED. SURVEY WAS ALSO MADE OF THE MANSFIELD MAINTENANCE FIELD OFFICE AT ROUTE 206 & 68.

THOUGHT IS NOW BEING GIVEN TO THE DESIRABILITY OF COMBINING ALL TELEPHONE SERVICES IN THIS BUILDING WITH A CENTRAL SWITCHBOARD. THIS WOULD BE MORE DESIRABLE, ALTHOUGH THERE ARE SOME PROBLEMS TO BE OVERCOME BEFORE THIS COULD BECOME AN ACTUALITY.

FILES & RECORDS

DURING FEBRUARY THE FILES IN THE STATE AID DIVISION WERE CLEARED OF ALL MATERIAL THAT HAD REACHED THE DATE FOR RETENTION IN THE OFFICE FILES. THIS MATERIAL WAS REMOVED TO THE CENTRAL FILES SECTION FOR INDEXING AND PREPARATION FOR PLACING IN BOXES FOR STORAGE IN OUR RECORDS BUILDING UNTIL IT COULD BE DESTROYED IN ACCORDANCE WITH THE DEPARTMENT'S APPROVED RETENTION SCHEDULE. EVEN THOUGH WORK SCHEDULES HAVE RESULTED IN A GREAT INCREASE IN PAPERWORK IN THIS DIVISION WE HAVE THUS FAR BEEN ABLE TO PROVIDE ALL NEEDED SPACE FOR CURRENT PROGRAMS WITHOUT THE PURCHASE OF ADDITIONAL FILING EQUIPMENT. THIS HAS AGAIN DEMONSTRATED THE EFFECTIVENESS OF OUR RECORDS PROGRAM AND THE EFFIEICENT USE OF OUR RECORDS BUILDING FACILITIES.

SINCE THE PURCHASE OF SO MANY COPYING MACHINES IT HAS BEEN NOTICED THAT A GREAT INCREASE IN PAPERS GOING INTO THE VARIOUS FILES HAS TAKEN PLACE. IT SEEMS THAT THE REPRODUCTION OF SO MANY COPIES HAS ONLY RESULTED IN A FURTHER CLUTTERING OF FILES. THESE FACSIMILE COPIES ARE GENERATED FOR "INFORMATIONAL" PURPOSES TO THE PERSONS TO WHOM THEY ARE SENT AND SHOULD NOT FIND THEIR WAY INTO THE FILES BUT SHOULD BE DESTROYED AFTER THEY HAVE SERVED THEIR PURPOSE. THESE MACHINES HAVE MADE IT SO EASY TO CREATE A NUMBER OF "EXTRA" COPIES OF CORRESPONDENCE THAT IF THE TREND CONTINUES IT WILL BE FOUND THAT WE ARE USING A GREAT DEAL OF SPACE IN THE FILES IN ADDITION TO CLERICAL SERVICES IN HANDLING THIS MATERIAL, ALL OF WHICH COSTS MONEY,

Form 140-30

MONTHLY DIVISIONAL REPORT

Month of FEBRUARY 19 61

Division: ACCOUNTING AND ADMINISTRATIVE SERVICES

Bureau: OFFICE SERVICES

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Form #AD-39

MONTHLY DIVISIONAL REPORT Month of FEBRUARY 1961

Division: ACCOUNTING AND ADMINISTRATIVE SERVICES
Bureau: OFFICE SERVICES

FILES & RECORDS (CONTINUED)

THAT A STUDY SHOULD BE MADE OF WHAT, IF ANY PURPOSE, IS SERVED BY KEEPING SO MANY COPIES IN SO MANY PLACES OF THE SAME CORRESPONDENCE.

MAILING SECTION

WITHIN THE 18 WORKING DAYS OF FEBRUARY, WE USED $3,500.00 IN POSTAGE, MOST OF WHICH WAS SPENT ON 50,000 PREPAID ENVELOPES FOR THE VARIOUS BUREAUS.

EVERY SPARE MOMENT, IS SPENT ON COLLATING NEWS RELEASES FOR THE BUREAU OF PUBLIC INFORMATION. WE ALSO COLLATED, FOLDED AND MAILED HUNDREDS OF LETTERS AND LARGE ENVELOPES AS EVIDENCED BY THE $270.00 WORTH OF POSTAGE USED BY THAT BUREAU IN A FEW DAYS. IN ADDITION TO THE TIME SPENT ON STUFFING ENVELOPES FOR THEM, WE STAND FOR HOURS FOLDING THOUSANDS OF PAGES FOR BOOKLETS THAT WE ALSO HAVE TO COLLATE AND STAPLE.

DUPLICATING SECTION

SEVERAL REPORTS WERE MADE FOR NEW FORMS AND REVISIONS; THEY HAVE BEEN PROCESSED AND THE FINISHED PLATES MADE READY FOR PRINTING. DUTIES PERFORMED ON OUR OTHER MACHINES ARE PROGRESSING STEADILY. WE HAVE HAD SOME OF OUR EMPLOYEES WORKING A FEW HOURS OVERTIME TO MEET THE RUSH JOBS. ROUTINE WORK IS PROGRESSING ALONG NORMALLY.

Kenneth D. Rice
Secretary

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of FEBRUARY 1961

Division: ACCOUNTING AND ADMINISTRATIVE SERVICES

Bureau: OFFICE SERVICES

FILES & RECORDS (CONTINUED)

THAT A STUDY SHOULD BE MADE OF WHAT, IF ANY PURPOSE, IS SERVED BY KEEPING SO MANY COPIES IN SO MANY PLACES OF THE SAME CORRESPONDENCE.

MAILING SECTION

WITHIN THE 15 WORKING DAYS OF FEBRUARY, WE USED $3,500.00 IN POSTAGE, MOST OF WHICH WAS SPENT ON 50,000 PREPAID ENVELOPES FOR THE VARIOUS BUREAUS.

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Form #AD-39

MONTHLY DIVISIONAL REPORT Month of February 1961

Division: Accounting and Administrative Services
Bureau: Administration

CONTRACTS

Bids received on ten (10) projects and necessary reports and certificates of award prepared. One (1) contract awarded; contracts prepared and forwarded for execution. Execution of three (3) contracts completed. Eighteen (18) projects advertised for bids. One hundred thirty-five (135) sets of plans and supplementary specifications distributed.

SCHEDULES OF APPROVALS

Four (4) Schedules prepared listing a total of two hundred seventy-one (271) items; which by a combination of items where possible represents action on three hundred seventy-two (372) individual items. Official copies of Schedules signed by the Commissioner, placed in Minute Book and indexed. Schedules of Approvals distributed in accordance with regulations and necessary letters concerning official actions written.

GENERAL

6 Standard Specifications issued
3 Deposits made for transmittal of income
2 Traffic Regulations certified to Division of Motor Vehicles
157 Property Agreements attested and processed
12 Agreements attested and processed
22 Municipal Aid contracts, applications, agreements, transfers, etc. certified
8 General Releases executed
2 Deed of Conveyances acknowledged and processed
2 Lease Agreements executed
3 Snow Removal Equipment Rental Agreements (1960-61) executed
4 Utility Orders attested and processed
7 Highway Lighting Agreements executed
3 Equipment Rental Agreements executed
6 Motor Vehicle License Forms executed

General correspondence, filing and answering telephone inquiries.

Receiving and reading bids at two lettings.

Kenneth D. Rice

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Secretary

Form 4AD-39

MONTHLY DIVISIONAL REPORT Month of February 1961

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Bureau: Administration

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Kenneth D. Rice
Secretary

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of FEBRUARY 19 61

Division: Accounting and Administrative Services

Bureau: Purchase and Stores

The activities in the Bureau of Purchase and Stores during the month of February, 1961, were of a routine nature. Order Requests were received from the various Bureaus and Divisions, and Detailed Applications were prepared and forwarded to the Division of Purchase and Property. These applications covered a considerable amount of material and equipment to be procured for the Highway Department.

Arranged to take over the Equipment Bureau Stock Room located at the Newark Garage with personnel from the Bureau of Purchase and Stores.

In accordance with new procedure, forwarded list of scrap materials to the Division of Purchase and Property for their disposal.

Check in the amount of $234.30 covering the sale of 4686 empty 5-gallon Paint Cans at $.05-each from the United Can Company, Mr. Alvin Binder, 7750 Clements Road, Wyncote, Pennsylvania, was forwarded to Mr. Card, Comptroller. This terminates the present arrangement for the pick up of Paint Cans.

Approximately 25 salesmen representing numerous manufacturers and distributors were interviewed during the month and there were approximately fifteen meetings having to do with various departmental matters.

Clifford Read

Supervisor, Purchase and Stores Bureau

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of FEBRUARY 1961

Division: Bridge

Bureau: Bridges under Construction

ROUTE	SECTION		% OF COMPLETION
10	4B&5A	Canoe Brook Br. & Wall, Essex County	34
21	1C	14 Structures, Essex-Passaic Counties	87
US22 4 US46	13A-14A 2A 15A	4 Pedestrian O.P. and Stairs, Union and Bergen Counties	98
US22	10A	U.P. at Relocated Mountain Ave., Somerset County	1
28	1A&7A	LVRR Bridge at Westfield Ave., Union County	28
28	3A&4A	Brs. over Green Brook & Bound Brook, Somerset-Middlesex Counties	19
35	2A	Whale Creek Culvert, Ocean County	99.5
35	6A&4A	Culvert, Monmouth County	99
US40	2A	Game Creek Bridge, Salem County	16
54	1A,2A,3A	Culvert at Deep Run, Atlantic County	21
78	2F	2 O.P. at CRR & LVRR, Hunterdon County	99
80	2E	10 Bridges, Morris County	96
80	2J	4 Structures, Morris County	26
80	5G	Hackensack River Br. Substructure, Bergen County	0
82	1A	LVRR Bridge at Morris Ave., Union County	96
95	1D	2 O.P. at Broad Ave. & Grand Ave. & Culv., Bergen Co.	53
95	1E	U.P. at Edgewood Road, Bergen County	0
95	1G	7 Structures, Bergen County	0
95	1H	Viaduct over NRRofNJ & 30' Channel, Bergen County	1
129&29	1A&15A	8 Structures, Del. Riv. to Scotch Rd., Mercer County	96
US130	7A&8B	3 Bridges, Camden & Burlington Counties	90
US130	7B&10B	2 Culverts, Camden & Burlington Counties	0
169	1	3 Bridges, Pt. Breeze to Constable Hook, Camden Co.	95

MONTHLY DIVISIONAL REPORT — MONTH OF FEBRUARY, 1961

DIVISION: Bridge

BUREAU: Bridges under Construction

ROUTE	SECTION		% OF COMPLETION	
202	8A	6 Bridges, Hunterdon & Somerset Counties		39
208	2A,1A,3B	U.P., Culvert, Bergen & Passaic Counties		99.5
208	2C	O.P. at NYS&WRR, Bergen County		0
287	1B	9 Bridges, Somerset County		96.5
287	1C&2B	7 Bridges, Somerset & Middlesex Counties		99.3
287	2C	6 Structures, Middlesex County		20
295	1C	9 Structures, Camden & Gloucester County		94
295	1D	4 Structures, Camden & Gloucester Counties		99
US322	3A	3 Bridges, Atlantic County		67
Redecking 4 Bridges:				
36	3A	Shrewsbury River Bridge, Monmouth County	100	
47	8A&9A	Manantico Creek Bridge, Cumberland County	46	
49	3A&4A	Alloways Creek Bridge, Salem County	99.5	
130	1A&6A	Big Timber Creek Bridge, Camden-Gloucester Cos.	100	91
Cape May County		Roosevelt Blvd. Bridge over Crook Horn Thorofare		10
Hudson County		Palisades Ave, Bridge over Ravine Road		40

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of February 19 61

Division: Maintenance and Operations
Bureau: Electrical Operations

OPERATION

31 movable bridges, full time; 7 on 24 hour notice.

MAINTENANCE

1,020 traffic signals, 5 lane control systems, 782 illuminated signs, 38 movable bridges, 237 mobile radio units, 10 base stations.
Replacement, equipment knocked down, 28 locations.

CONSTRUCTION BY BUREAU FORCES

0 new traffic signals.
10 traffic signal revisions; 1 completed.

CONSTRUCTION BY CONTRACT

Highway lighting, Route I-287, Sections 1D and 2D, 0%
Traffic signals and lighting, Route U.S.130, Sections 7D and 10C, 0%

DESIGN BY BUREAU FORCES

Highway lighting, Route I-80, Howard Boulevard to Route 46, 5% complete.
Highway lighting, Scudders Falls Bridge Approach, 75% complete.
Highway lighting, Route I-295, Route 42 Freeway to Route U.S.130, 75% complete.
Traffic signals, 3 completed.
2 field surveys and drawings for Bureau of Planning and Traffic.
Specifications prepared, FAS - 3, State Aid 0.

DESIGN BY CONSULTANTS

Highway lighting, Route I-287, River Road - Route U.S.1, 35% complete.
Highway lighting, Route I-80 and I-85, Parkway to George Washington Bridge, 60% complete.
Highway lighting, Route I-80, West of Parkway, Contracts 1,2,3,4,5, 85% complete.

INSPECTION

33 PUO relocations; 5 FAS projects; electrical work in 31 road construction projects.
2 prime electrical contracts.

NEGOTIATIONS

5 traffic signals under negotiations; 2 complete.
10 field inspections and contacts with local officials, 6 on traffic signals.

CLAIMS

Payments received $5,592.66
Property damage claims set up, 30
Traffic signal cost-sharing claims set up, 8
Work Orders issued resulting in claims, 19

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of February 19 61

Division: Bridge

Bureau: Design Section

ROUTE	SECTION	PROCESSING PLANS & SPECIFICATIONS
US1		Underpass at Woodbridge Avenue
US1-9-46	1C	Pedestrian Overpass at Washington Terrace
3		Hackensack River Bridge (Redecking)
3	2	Hackensack River Bridge (Proposed) - Hardesty & Hanover
4	4	Pedestrian Bridge at Grand Avenue
10	9	Culvert over West Branch of Rahway River
13	1	Lovelandtown Bridge Extension
18	1A	Southbound Bridge over Raritan River Railroad
22 WB		Pedestrian Overpass (Vicinity Phillipsburg High School)
22		Newark Viaduct (Deck Repairs)
23	15B	Bridge over Mill Brook
24	12A&13B	Repairs - Existing Stone Culvert over Van Winckle Brook
27	8B	Culvert at Station 446+19, Peach Orchard Brook -Clark & Hartman
27		Culvert at Station 295+06.50, 6-Mile Run
49		Penns Neck Bridge over Salem River (Fender Repairs)
50	1A&2A	Cedar Swamp Creek Bridge
52		Beach, Rainbow, Elbow Thorofare & Ship Channel (Deck Repairs)
78	2G	Six Bridges - Parsons, Brinckerhoff, Quade & Douglas
78	3	24 Bridges, Annandale to Pluckemin - Parsons, Brinckerhoff, Etc.
78	4	18 Bridges, Pluckemin to Berkeley Hgts. - DeLeuw, Cather & Brill
80	4	Bergen-Passaic Expressway Bridges - Fay, Spofford & Thorndike
80	5	Bergen-Passaic Expressway Bridges - Parsons, Brinckerhoff, Etc.
80-23		Interchange, 17 Structures - Fay, Spofford & Thorndike
95-80		Interchange, 6 Structures - Parsons, Brinckerhoff, Etc.
US130		Underpass at Federal Street
US130	7B&10B	Culvert at Tanners Run
168		Culvert at Station 112+50, Black Horse Pike
206		Bridge over Paulinskill River
208		Morlot Avenue Grade Separation
208	2B	Six Structures - Goodkind & O'Dea
287	3B	5 Structures, East of New Durham Road - Madigan-Hyland
287	3C	4 Structures, Whitman Ave.to Rt. US1 - Madigan-Hyland
287	12A&13A	5 Structures, Intervale Rd.to Vreeland Ave. - Goodkind & O'Dea
287	4A	6 Structures - Madigan-Hyland
287		20 Structures, Rt.202 to Rt.78 Interchange - Madigan-Hyland
295	2E	7 Structures - Sherman, Taylor & Sleeper
295	2F	5 Structures - Sherman, Taylor & Sleeper
Morris Co.		Howard Blvd. & DL&WRR Bridge at County Rt. 264

PROJECTS ADVERTISED FOR BIDS

17	3A&4A	U.P. at East Ridgewood Ave. - Bids to be received 3/2/61
US22	14B	Liberty Ave.& LVRR Bridge Widening - Withdrawn 2/7/61
80	5H	Hackensack River Bridge, Superstructure Steel - Bids 3/16/61
95	1H	Viaduct over NRRofNJ & 30' Open Channel - Bids received 1/26/61; awarded 2/6/61 to Poirier & McLane Corp.
Hunterdon Co.		New Bridge & Covered Bridge over Wickecheoke Creek - Bids 3/14/61

PLANS SUBMITTED TO BUREAU OF PUBLIC ROADS

US130&206	1A	US206NB over US130SB and US206SB over US130NB
287	3A	6 Structures, Stelton Rd.to New Durham Rd. - Madigan-Hyland

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of February 1961

Division: Maintenance and Operations

Bureau: Maintenance

LANDSCAPE SECTION

Except for the removal of 107 trees and the completion of roadside clearance projects along Route 4 Parkway adjacent to the new high school now under construction in Cape May Court House and at rest areas on Route 130 at Bridgeport, the landscape forces were engaged in snow removal and ice control operations and assisting regular maintenance forces in pavement patching work.

CONSTRUCTION AND MAJOR MISCELLANEOUS PROJECTS

No construction projects were started or completed, due to inclement weather and the utilization of construction forces on snow removal and ice control operations and pavement patching work.

SNOW REMOVAL

A considerable amount of snowfall occurred during the first part of the month which necessitated the utilization of all available personnel and department and contractors equipment. Due to high winds and much drifting, some sections of highway were blocked at times but were opened as soon as heavy equipment could be made available. On February 15 department officials met with municipal, county and other governmental officials in the Camden area to discuss the matter of co-operation and coordination between the department and other governmental agencies. It is felt that much was accomplished by the meeting and in future storms the department will have the full cooperation of the Camden area communities.

INSPECTION OF COMPLETED CONSTRUCTION PROJECTS

Inspected one construction project preliminary to acceptance by the bureau (Route 1, Section 4D and 5C) and found it was not in satisfactory condition for acceptance, due to deteriorated curb at two turnarounds.

MAINTENANCE BUILDINGS AND STRUCTURES

Final drawings and specifications approved for installation of sprinkler systems in Buildings 17 and 34 at Fernwood; preliminary floor plans revised and site staked out for soil test borings for new garage and service building on Route 70 in Delaware Township; completed interior partitioning and plumbing for new lavatory and locker room in maintenance building on Route 69 at Flemington, and installation of new heating and septic systems for landscape maintenance yard on Route 35 at Belmar.

PERMITS SECTION

Total of 136 applications processed, including 71 for road openings, 42 for the erection of poles, 16 for entrances and 7 for miscellaneous projects.

MONTHLY DIVISIONAL REPORT Month of February 1961

Division: Maintenance and Operations

Bureau: Maintenance

BRIDGE SECTION

Due to inclement weather, only routine maintenance and repair work was performed. Hudson Steel Erection Company has completed approximately 50% of the work under its contract for installing a grid deck at the Menantico Creek Bridge on Route 47. On February 23 eight bids were received for the painting of bridges throughout the State and seven were rejected because the majority of bidders failed to execute the financial statements properly. Recommendation has been made for readvertising these seven contracts. On the other contract, Contract 2 for painting Bridge #92/9 carrying Route 1-Truck over the Passaic River, Cities of Kearny and Newark, Counties of Hudson and Essex, there was but one bidder, J. I. Hass Company, Incorporated. The Hass Company bid was considerably below our engineer's estimate and recommendation has been made for awarding this contract to that company.

SIGNS AND LINES SECTION

Erected new type green directionary signs on Route 46, Netcong to Buttzville; Route 206, Trenton to Hammonton; Route 37, Lakehurst to Seaside Heights, and Route 87, from Route 30 to Brigantine. Recoded No Passing Zones on 15 sections of highway where identifications were lost because of abnormal wear on pavements. Erected Service Connection Notices and passed out Notices Prior to Reconstruction in connection with construction projects on Route 95, Section 1H, Northern Railroad to Grand Avenue, Leonia; Route 22, Section 14B, Harding Terrace to Bloy Street, Hillside, and Route 17, Section 3A and 5A, Midland Avenue to Wynetta Place, Paramus.

MATERIALS SECTION

Completion of all orders for chlorides now being made throughout the state. In some cases delivery of this material is now entirely complete, while in other cases it is in transit. It is felt that our present orders will more than amply meet our requirements for the remainder of the 1960-1961 season. As far as abrasive materials are concerned, it may in some cases be necessary to further extend our present orders, but at the present time our stock piles are well supplied.

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of February 1961

Division: Maintenance & Operations

Bureau: of Plant & Equipment

NEW EQUIPMENT

The following new equipment was received during the month: 18, International, Model B182, 2½-ton Dump Trucks; 4, International, Model R202A, 6-ton Dump Trucks; 6, Hough, Model H30R, 3/4 cu. yd. Front End Loaders; 4, Torjan, Model LHM75, 3/4 cu. yd. Front End Loaders; 27 Good Roads, Model 121J, Snow Plows; 2, Spot, Stapling Machines; and 1, 5' x 12' Heat Lamp Applicator.

SNOW SECTION

This section repaired snow plow equipment on 45 trucks. Repaired 48 snow plows, 30 trip springs, 3, 40 spreaders, 28 semi-circles, 42 hydraulic rams, 12 hydraulic pumps, 14 push frames, 12 axle clamps. Three moldboards were straightened and painted. Straightened 36 pipe struts. Repaired and painted 22 center attachments. Assembled and numbered 27 new snow plows. Welded 10 axle clamps for new trucks, 100 axle clamp bolts, and 100 caster wheel axles. Cut and drilled parts for new trucks. Three new trucks were equipped for snow removal. Constructed and installed one underframe attachment on a G.M.C. truck with independent front suspension.

GENERAL REPAIR SHOPS

Safety lights, tail lights and driving lights were repaired and/or installed on 59 pieces of equipment. The Carburetor & Ignition Shop completed 174 operations. The Car & Truck Shop completed 69 major and minor repairs. The Mower, Carpenter and Tin Shops completed a total of 105 major and minor operations. The Inspection Section was constantly active with regular and special assignments. The Machine Shop completed a total of 265 major and minor operations. The following number of major andminor repairs were completed on the road and in the shops: Equipment Operations, 117; Heavy Equipment Section, 46; Diesel Section, 93.

BUILDING MAINTENANCE SECTION

The Building Maintenance Section completed the following work throughout the state:

Fernwood Service Station	Bldg. #1 - Replaced broken steam lines and 2 traps. Built and installed storm windows, installed ceiling and replaced door lock in Machine Shop office. Repaired elevator in Stock Room.

	Bldg. #18 - Painted all rooms, halls and stair wells, built new shelving in stock room, installed air line from main compressor to constant temperature room, plastered small holes in ceiling and skylight.
	Bldg. #11 - Worked on new gas house and boiler room, also made other alterations.
	Serviced heating units in Bldgs. #3, #9 and #16.
	Repaired and adjusted overhead doors in Bldgs. #2 #7 and #8.
Avenel Garage	Built additional racks in stock room.
Belmar Maintenance Yard	Built boiler room and installed heating system; erected a 5' bench for mower repairs; built chimney for new heater, removed overhead doors and installed a solid wall in Landscape Maintenance building.
Bloomsbury Field Office	Repaired heating unit.
Bogota Field Office	Replaced broken line and toilet.
Branchville Garage	Installed four new springs on overhead doors; painted floor, walls and ceiling in new stock room and office.
Clinton Point Garage	Installed and painted window in Men's room.
Edgewater Park Maint. Yard	Built and installed lockers for foul weather clothing.
Flemington Garage	Finished building and painted locker room and Men's room, also erected partitions.
Hammonton Garage	Installed doorway and door from main building to new building.
Metuchen Field Office	Repaired leak in roof and gutters.
Mays Landing Maint. Yard	Repaired and serviced heating unit in office.
Newark Garage	Installed three new heating units. Checked traps on all remaining heater units in garage. Repaired water coolers.

Toms River Garage	Repaired overhead doors.
Vineland Garage	Repaired and serviced overhead doors.

Serviced hot air heating units in the following buildings at Fernwood Service Station, #3 #9 and #16; also at Lodi, Paterson, Belmar, Jersey City and Bridgeport.

Applied water treatment and serviced boilers in the following buildings: Fernwood Service Station, #1, #2, #7, #18, #20, #21 and #39; also at Flemington, Clinton Point, Metcong, Branchville, Dover, Newark, Avenel, Sand Hill, Hammonton, Toms River and Vineland Garages.

Completed general maintenance work consisting of replacing window glass, repairing floors and patched roofs.

CLAIMS

A total of $2,382.28 was collected during the month on insurance claims.

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of February 1961

Division: PERSONNEL
Bureau:

RECRUITMENT AND TRAINING

During the month of February, recruitment visits were made to Rutgers University, Pennsylvania State University, University of Pennsylvania and Manhattan College. A scheduled visit to Columbia University was canceled because of lack of interest. At the colleges visited, twenty-seven young men were interviewed who will be graduating this coming June with degrees in civil engineering. Invitations have been extended to these young men to visit our central offices here in Trenton before any firm commitments are made.

Eight undergraduate civil engineering majors have been employed as Student Assistants in connection with Cooperative Training Programs operated in conjunction with Drexel Institute of Technology, Philadelphia, Pennsylvania, and the University of Detroit, Detroit, Michigan. Six of these students were from Drexel and two from Detroit. All are employed as Engineering Aides and assigned in various areas of the Department's work.

In connection with the Cooperative Office Work Experience Program conducted by Ewing High School, four young ladies have been employed as Student Assistants and are working in the Trenton offices on a part-time basis from 1 P. M. to 4:30 P. M. each weekday. All of these students will be graduating from high school this coming June.

SAFETY

In the past month a conference was held regarding the uniformity of road construction safety signs. A representative of the Division of Motor Vehicles, a representative of the Highway Department Traffic Bureau, as well as one representing the Bureau of Location and Design, and the Safety Supervisor were the conferees.

The Motor Vehicle Code, Chapter 39;4-183. 26, referring to guide signs which, at the present time, call for white background with black letters was the topic of discussion. It was felt by the group that the statute should be changed to conform with the manual on uniform traffic controlled devices as recommended by the Bureau of Public Roads.

The matter of battery-type flasher lights which are presently used on construction jobs should also be considered; that is, for the Highway Department in conjunction with the Division of Motor Vehicles to specify a type of light to be used, such as the size, type and color of lens and the on and off time element be considered.

Pennsylvania State University, Pennsylvania State University of Pennsylvania and [illegible] College. A scheduled visit to Columbia University was canceled because of lack of interest. At the college visited, twenty-seven young [illegible].

[illegible] graduate civil engineering majors have been employed as [illegible] in connection with Cooperative Training Programs operated in [illegible] with Drexel Institute of Technology, Philadelphia, Pennsylvania, [illegible] University of Detroit, Detroit, Michigan. Six of these students were [illegible] and two from Detroit. All are employed as Engineering Aides [illegible] in various areas of the Department's work.

[illegible] High School, four young ladies have been employed as Student Assistants working in the Trenton office on a part-time basis from 1 P. M. to 4:30 P. M., [illegible] weekday. All of those students will be graduating from high school during June.

[illegible] month a conference was held regarding the uniformity of road construction signs. A representative of the Division of Motor Vehicles, a representative of the Highway Department Traffic Bureau, as well as one representing the Bureau of Location and Design, and the Safety Supervisor were the conferees.

[illegible] Vehicle Code, Chapter 39;4-183. 26, referring to guide signs which, [illegible]. It was felt by the group that the statute should be changed to [illegible] by the Bureau of Public Roads.

[illegible] Amber lights which are presently used on construction [illegible] considered; that is, for the Highway Department in connection with the Division of Motor Vehicles to specify a type of light to be used, [illegible] as to the color, type and color of lens and the on and off time element be [illegible].

The Committee agreed on the need for changes and the Safety Supervisor is to develop a change in writing for further review and study by the Committee before presentation to the proper authorities for revision of this statute.

Because of the severe storms and generally inclement weather theeye testing program which was to have started has been delayed until the month of April.

Plans are presently underway for a concentrated effort towards safety enforcement on all contractors' operations where work is being performed for the Highway Department. This effort will also embrace those contractors working on the highways under permit. Through the last snow storms it was learned that contractors' vehicles doing work for the Highway Department during snow and ice seasons are not properly equipped from a safety point of view. Efforts towards the adjustment of this situation for the next season are underway.

A survey for the need of additional automatic fire fighting equipment was made for the Laboratory. A determination on the type of equipment to be used and the estimated cost was received from a manufacturer of fire fighting equipment and an order eas placed for the installation of a carbon dioxide flooding system to cover the necessary rooms within the Laboratory building. Additional chemical fire extinguishers were installed throughout the Laboratory buildings.

A study for the need of fire extinguisher equipment for all Highway Department installations has recently been made and units of proper chemical substance and size are being installed as the need develops.

IN REPLY PLEASE REFER TO

Monthly Report
Division Planning,
Research,Soils
and Tests

State of New Jersey

STATE HIGHWAY DEPARTMENT

DWIGHT R. G. PALMER, COMMISSIONER

TRENTON 25

March 3rd,1961

Commissioner Dwight R. G. Palmer:

Herewith are submitted the reports of this Division for the month of February 1961.

Planning & Traffic
Harry A. Hartmann
Assistant Supervising Engineer

Engineering Research
William VanBreemen
Research Engineer

Soils
Keith Rosser, Jr.,
Assistant District Engineer

Testing Laboratory
J. C. Reed
Supervising Engineer

Howard N. Rigby
Director and Chief Engineer
Division Planning, Research, Soils & Tests

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of February 1961

Division: Planning, Research, Soils and Tests
Bureau: Planning and Traffic

HIGHWAY USE SURVEY SECTION

Field

The regular programmed machine and manual counts were considerably disrupted this month because of heavy snow and extreme cold.

Office

The normal functions of processing and reviewing field counts have been resumed.

TRAFFIC DESIGN AND RESEARCH SECTION

During this period the major work items for this section were the continuation of basic analytical research into traffic signal synchronization; the estimation of traffic volumes for various items in the construction program; and the preparation of a scheme for the channelization of the Route 38-41-73 traffic circle in Camden County. Other items included the completion of the review of the cross-street volumes for the 104(b)5 study; and the review of lane lines on several projects.

HIGHWAY TRAFFIC OPERATIONS SECTION

During this period the Highway Traffic Operations Section has received, investigated and processed requests for the installation, revamping, retiming and operation of traffic signals; has received and processed miscellaneous traffic investigations; has checked the timing and operations of signallized intersections.

TRAFFIC SAFETY, CONTROL AND REGULATION SECTION

The assignments under way in this section consisted of radar speed meter surveys for speed zone studies; laying out and processing "no parking" regulations, making traffic investigations and parking studies, preparing and processing other traffic regulations and coordinating Departmental review of Riparian Rights.

HIGHWAY PLANNING SURVEY SECTION

Road Inventory

Field work has been suspended due to lack of personnel.

Road Mileage Statistics

Preparation of the 1960 S.M. Report is now under way.

Mapping

The General Highway Series Maps are being revised and urban area enlargements are being prepared by the drafting section.

of

Traffic Operations

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of February 1961

Division: Planning, Research, Soils and Tests
Bureau: Planning and Traffic

Annual Statistical Reports

The 1960 Annual Report on the Motor Fuel Tax has been completed.

The 1960 Annual Report on Motor Vehicle Receipts is under way.

The 1960 S.E., S.I. Report for the first six months of 1960 is under way.

Highway Defense Requirements, Bridge Records

The collection of data for the 1960 revisions has been completed, and preparation of the revised sheets for reproduction is under way.

Penn-Jersey Transportation Study

With the completion of collection of field data, the Study is now actively engaged in the data processing work phase. This will shortly require the use of electronic computers. Investigations by the Study Staff to make a determination as to the programming, type of computer to be used, data to be assimilated etc., are under way.

At the Policy Committee Meeting on February 10, 1961, the general operating budget covering a twenty month period starting January 19, 1961, and submitted by the Executive Director was reviewed and discussed but not adopted. The budget was referred to a sub-committee for further detailed consideration.

The sub-committee on budget met on February 20, 1961 and recommended a 3.4 million dollar total budget be adopted in order to obtain data of sufficient detail to permit its use in route location analysis needed by the Highway Departments of both States.

ADDITIONAL STUDIES

Newark Transportation Study

The consultants have been working on the development of both highway and mass transit system layouts for Newark. The preparation of a report covering all phases of the study is now in a preliminary stage of completion. A meeting with our Bureau and the consultants was held to review the general format of the report. The possible extent of planned improvements within the City as part of the overall plan will require some additional study.

Northeastern New Jersey Transportation Study

The prepared agreement for the Northeastern New Jersey Transportation Study has been approved by the Washington office of the Bureau of Public Roads. Work on the drafting of a preliminary organization chart is under way. Upon its completion, the agreement will be ready for approval by the eight individual counties.

The 1961 Annual Report on the Motor Fuel Tax has been completed.

The 1961 Annual Report on Motor Vehicle Receipts is under way.

The 1961 U.S. Report for the Joint Highway Research Project is underway.

The publication of data for the 1961 traffic surveys has been completed, and the publication of the traffic flow map is now underway.

In the compilation of field data, the Study is now actively engaged in the area traffic surveys. These will shortly require the use of electronic computers. Investigations by the Study staff to make a determination as to the procedure, type of computer to be used, data to be assembled etc., are under way.

At the Policy Committee Meeting on February 10, 1961, the general operating budget covering a twenty-month period ending January 1, 1963, was submitted by the Executive Director was unanimously approved but not adopted. The budget was referred to a committee for further detailed consideration.

The sub-committee on budget met on January 31, 1961 and reported to the full Policy Committee on February 10, 1961. The budget was adopted in order to obtain data of sufficient detail to permit its use in route location analysis needed by the Highway Departments of both States.

The consultants have been working on the origin and destination survey and are currently in the tabulating stage of completion. A meeting with our Bureau and the consultants is now in the tabulating stage of completion. A meeting with our Bureau and the consultants is now in the tabulating stage of completion. A meeting with our Bureau and the consultants is now

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of February 19 61

Division: Planning, Research, Soils, and Tests

Bureau: Engineering Research

PAVEMENTS

In collaboration with Soils Bureau, made necessary studies and submitted pavement recommendations for the following projects: (a) Route 46, Sections 23 and 12, and (b) Route 287, Section 3C. Also made studies in connection with several future projects.

Developed details of proposed experimental resurfacing project on Route 22 (Route 28, Section 30) between Clinton and Jugtown Mountain, involving the installation of welded wire fabric and expanded metal in the bituminous resurfacing materials. The purpose of this project, which involves the resurfacing of plain concrete pavement having contraction joints at 15-foot intervals, is to determine the effectiveness of the fabric and expanded metal in preventing the occurrence of reflection cracks, in the bituminous resurfacing, over the joints in the existing pavement.

As continuing study, took measurements at experimental joints in the following locations: (a) Route 130, vicinity of Deans, (b) Route 130, Robbinsville, and (c) Route 206, between Flemington and Somerville.

Made inspection of resurfaced concrete pavement on Route 1, from Trenton to New Brunswick, to determine the degree of differential frost-heaving between the inside and outside lanes of underlying concrete pavement, especially where the inside lanes were laid directly on the native subgrade soil, and the outside lanes were laid on subbase. No significant differential heaving was found.

Took additional measurements and made further studies to determine cause of serious rutting of bituminous pavement, on 6-inch bituminous-stabilized gravel base, on Route 73, between Route 130 and the Palmyra Bridge. Also participated in conference relative to this investigation.

BRIDGES

In collaboration with Bridge Division, investigated condition of concrete deck on bridge over Penna. R. R., on Route 1, Adams Station. The concrete was found to be in a badly disintegrated condition for a depth of as much as five inches. The rehabilitation of the deck will therefore be necessary.

Took measurements on Edison Bridge, and reported verbally on same.

Submitted report on Raccoon Creek Bridge, Route 130, Bridgeport. Our measurements show that the conditions are now such that unless steps are taken to prevent further inward movement of the south abutment, or to create additional expansion space, there will be a binding of the drawspan within the very near future.

As continuing study, took measurements in connection with the following bridges: (a) Cheesequake Creek, Route 35, (b) Inland Waterway, Lovelandtown, (c) Inland Waterway, Route 88, and (d) Shark River, Route 35. Expansion difficulties have been experienced with these bridges.

MISCELLANEOUS

Reviewed tentative draft of AASHO guide for the design of flexible pavements, and submitted comments in connection therewith.

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of February 19 61

Division: Planning, Research, Soils and Tests

Bureau: Soils and Subdrainage

BORINGS

A boring contract consisting of approximately 345 holes is ready to be awarded by Madigan and Hyland covering F.A.I. Route 287 from Berkeley Heights to Shunpike Road. It is anticipated that inspection will be performed by Soils Bureau personnel.

Among the scattered exploration projects currently being, or about to be, performed by our own boring rigs are:

1. F.A.I. Route 80 and Route 23 Interchange
2. Route 80-S Camden North-South Freeway
3. Route 80 over Mayhill Road
4. Route 80 over Coalberg Brook
5. D. L. & W. Railroad over Howard Boulevard
6. Route 206 over Paulin's Kill
7. F.A.I. Route 287 Interchange at Route 206 and F.A.I. Route 287 over the Raritan River
8. Route 10 over the Rahway River
9. Route 208 Interchange at Marlot Avenue
10. State Highway Department Maintenance Building in the vicinity of the F.A.I. Route 295 and Route 70 Interchange

ENGINEERING

Investigations have been completed of the rock cut area on Route 5 along the Hudson River and a final report is nearing completion. It will contain a geological report covering the formation of the various layers and explain the reasons for the unstable condition as it now exists as well as a joint recommendation of the Soils Bureau and the Maintenance Engineer in regard to the measures required to correct it.

The final draft is presently being prepared of a report on the investigation of the severe rutting which has occurred in the flexible pavement of the recently constructed Route 73 Section 1D project. This section extends from the Palmyra Bridge Plaza to Route 130 and the work performed consisted of widening and resurfacing. The widened roadway consists of 6" of hot-plant mixed gravel base over subbase that tapers from 6" adjacent to the existing concrete to 12" under the outside edge of the shoulder. Both the widened roadway and the existing pavement were covered with 3" of FA-BC-2 in which the stone content was kept to a minimum consistant with stability requirements as proposed by the laboratory in order to increase skid resistance.

In attempting to determine the reason for the rutting, this bureau has worked jointly with the Bureau of Research and the Bureau of Tests as well as the New Jersey Bituminous Concrete Association, the Asphalt Institute and the New Jersey Crushed Stone Association.

This bureau has been requested by Mr. A. Faxon, Supervising Engineer of the State Aid Projects Division, to perform "on-the-job" gradation analyses of natural aggregates used on State Aid Projects in the area south of Trenton in the same manner in which we test the seventeen or so classes and types of soil materials on primary highway projects. This was based on his conviction that the present method of shipping samples to the laboratory, due to the length of time involved, does not lend itself to adequate control during construction.

We have agreed, tentatively, to perform this service on an experimental basis during the slack period in the construction season. Our District Engineer will instruct the Projects Inspectors in proper sampling proceedures and our field engineers will test the samples in field laboratories so long as it does not impair the quality of our service performed for major highway projects.

It is anticipated, however, that performance of this additional function during the normal construction season will require the assignment of additional personnel to the Bureau of Soils and Subdrainage.

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of February 19 61

Division: Planning, Research, Soils & Tests

Bureau: Testing and Materials

NEW MATERIALS

Joint Sealer, known as Gray Igas, Gun Grade, and a two-component Epoxy Joint Sealer, both from the Sika Chemical Corporation, tested for use in vertical joints in abutment walls and in concrete pavement joints. For similar use, same tests made on two-component Poly Chem UT-60, pourable sealing compound from Dittbrenner Associates. Physical and chemical tests performed on Mineral Filler to ascertain its suitability for use in bituminous work.

MATERIALS' DEVELOPMENT

Tests completed on Alternate Material Specifications for Dix Seal. A study of comparative applications of Pigmented Curing Material begun to ascertain the anticipated water retention of a thin coating as compared with a heavier one. Concrete Curing Blanket - burlap-polyethylene combination - is under test for the Bridge Division. For the Purchase & Stores Bureau, tests started on polyethylene lined molds for concrete cylinders, and on aluminum signs. Laboratory representatives visited Union-Carbide Corporation in reference to use of Epoxy materials for highway and bridge resurfacing.

PERFORMANCE TESTING AND INSPECTION

Two reflectorized plates, representative of plates currently in use on State cars and trucks, under Accelerated Weathering Test for 600 and 1200 hours to determine their durability with respect to deterioration and discoloration, have been exposed to 536 hours to date. The Eighth Monthly Evaluation of Experimental Traffic Paint Test Lines made on Route U.S. 130, east of Robbinsville. The chief of the Chemical Section visited the laboratories of the Bureau of Public Roads, Washington, D.C., for two days of orientation and inspection of Infrared Spectrographic analysis and equipment. In conjunction with the Maintenance Bureau, inspections were made on seven projects prior to release of the Maintenance Bonds. Investigation made of the methods of manufacture and materials used at two prestressed concrete beam plants. Gradings and hydrometer analyses completed on 128 jar samples which were identified as to type of soil. Two Engineers from the Connecticut State Highway Department visited the Laboratory to observe our testing facilities.

PERSONNEL

Three Assistant Engineers, Highway (Trainees) neared completion of their assignments in the Laboratory. Two men from the Projects Division assigned here temporarily for training in aggregate grading and analysis. An Engineering Aide, I, was assigned to the Non-Bituminous Field Inspection Section and several personnel re-assignments were made in this same section.

MEETINGS

Laboratory met with representative of the Wire Reinforcement Institute to discuss placing of wire reinforcing in an experimental resurfacing bituminous concrete project. Laboratory represented at a meeting of the Highway Department Awards Committee.

SAMPLES RECEIVED

During this month, 484 samples were received for test as compared with 810 samples received during the corresponding period of 1960.

JCR:AM 3-1-61.

Planning, Research, Soils & Tests

Testing and Materials

[illegible]

[illegible] Joint Sealer, both from the Sika Chemical Corporation, tested for use in vertical joints in abutment walls and in concrete pavement joints. For similar use, same tests made on two-component Poly Chem UT-60, pourable sealing compound from Dittbrenner Associates. Physical and chemical tests performed on Mineral Filler to ascertain its suitability for use in bituminous work.

[illegible]

Tests completed on Alternate Material Specifications for Fill Soil. A study of comparative applications of Hardened Curing Material to ascertain the antitranspirated water retention of a thin coating as compared with a heavier one. Concrete Curing Blanket - burlap-polyethylene combination - is under test for the Bridge Division. For the Concrete Bureau, tests started on polyethylene lined molds for concrete cylinders, and on aluminum alpha. Laboratory representatives visited Union-Carbide Corporation in reference to use of epoxy materials for highway and bridge resurfacing.

[illegible] THEORETICAL AND INSPECTION

Two reflectorized plates, representative of plates currently in use on State cars and trucks, under Accelerated Weathering Test for 600 and 1200 hours to determine their durability with respect to deterioration and discoloration, have been exposed to the Sun's rays to date. The highly desirable evaluation of Experimental Traffic Paint Test Lines made on Route U.S. 130, east of Morganville. The chief of the Chemical Section visited the Laboratories of the Bureau of Public Roads, Washington, D.C., for two days of orientation and inspection of Infrared Spectroscopic analysis and equipment. In conjunction with the Maintenance Bureau, inspections were made on seven projects prior to [illegible] of the Maintenance Bonds. Investigation made of the methods of manufacture and materials used at two prestressed concrete beam plants. Gradings and hydrometer analyses completed on 128 jar samples which were identified as to type of soil. Two Engineers from the Connecticut State Highway Department visited the Laboratory to observe our testing facilities.

[illegible]

Three Assistant Engineers, Highway (Trainees) neared completion of their assignments in the Laboratory. Two men from the Projects Division assigned here temporarily for training in aggregate grading and analysis. An Engineering Aide, I, was assigned to the non-Bituminous Field Inspection Section and several personnel re-assignments were made in this same section.

[illegible]

Laboratory met with representative of the Wire Reinforcement Institute to discuss placing of wire reinforcing in an experimental resurfacing bituminous concrete project. Laboratory represented at a meeting of the Highway Department Awards Committee.

[illegible] RECEIVED

During this month, 464 samples were received for test as compared with 1,[illegible] samples received during the corresponding period of 1960.

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of **February** 19 **61**

Division: **Planning, Research, Soils & Tests**

Bureau: **Testing and Materials**

NEW MATERIALS

Joint Sealer, known as Gray Igas, Gun Grade, and a two-component Epoxy Joint Sealer, both from the Sika Chemical Corporation, tested for use in vertical joints in abutment walls and in concrete pavement joints. For similar use, same tests made on two-component Poly Chem UT-60, pourable sealing compound from Dittbrenner Associates. Physical and chemical tests performed on Mineral Filler to ascertain its suitability for use in bituminous work.

MATERIALS' DEVELOPMENT

Tests completed on Alternate Material Specifications for Dix Seal. A study of comparative applications of Pigmented Curing Material begun to ascertain the anticipated water retention of a thin coating as compared with a heavier one. Concrete Curing Blanket - burlap-polyethylene combination - is under test for the Bridge Division. For the Purchase & Stores Bureau, tests started on polyethylene lined molds for concrete cylinders, and on aluminum signs. Laboratory representatives visited Union-Carbide Corporation in reference to use of Epoxy materials for highway and bridge resurfacing.

PERFORMANCE TESTING AND INSPECTION

Two reflectorized plates, representative of plates currently in use on State cars and trucks, under Accelerated Weathering Test for 600 and 1200 hours to determine their durability with respect to deterioration and discoloration, have been exposed to 536 hours to date. The Eighth Monthly Evaluation of Experimental Traffic Paint Test Lines made on Route U.S. 130, east of Robbinsville. The chief of the Chemical Section visited the laboratories of the Bureau of Public Roads, Washington, D.C., for two days of orientation and inspection of Infrared Spectrographic analysis and equipment. In conjunction with the Maintenance Bureau, inspections were made on seven projects prior to release of the Maintenance Bonds. Investigation made of the methods of manufacture and materials used at two prestressed concrete beam plants. Gradings and hydrometer analyses completed on 128 jar samples which were identified as to type of soil. Two Engineers from the Connecticut State Highway Department visited the Laboratory to observe our testing facilities.

PERSONNEL

Three Assistant Engineers, Highway (Trainees) neared completion of their assignments in the Laboratory. Two men from the Projects Division assigned here temporarily for training in aggregate grading and analysis. An Engineering Aide, I, was assigned to the Non-Bituminous Field Inspection Section and several personnel re-assignments were made in this same section.

MEETINGS

Laboratory met with representative of the Wire Reinforcement Institute to discuss placing of wire reinforcing in an experimental resurfacing bituminous concrete project. Laboratory represented at a meeting of the Highway Department Awards Committee.

SAMPLES RECEIVED

During this month, 484 samples were received for test as compared with 810 samples received during the corresponding period of 1960.

JCR:AM 3-1-61.

[illegible]

[illegible] Don Grado, and a two-component epoxy joint [illegible] from the Grand Intersection, tested for use in vertical [illegible] to produce really impressive pavement joints. For similar ver- [illegible] Laboratory. [illegible] material is suitable for use in natural [illegible] work.

[illegible] Alternate material specifications for Bin No. 1. A study of [illegible] Specifications of Expanded Curing Material began to ascertain the [illegible] Blanket - Butyl-Polyethylene combination - is under test for [illegible]. For the Pendleton & Stones Bureau, tests started on [illegible] Lithon molds for concrete cylinders, and on plastics algin- [illegible] Laboratories started for highway and bridge resurfacing.

The Multicurbing plates, representative of plates currently in use on State trucks, under Accelerated weathering Test for 600 and 1,000 hours to [illegible] proposed to 336 hours to date. The Eighth Monthly Evaluation of [illegible] Traffic Paint Test Lines made on route U.S. 130, west of [illegible]. The Study of the Chemical Analysis of Glass Beads [illegible] on Traffic Lanes, Washington, D.C., for two days of orientation and [illegible] of Infrared Spectrum analysis and evaluation. In conjunction [illegible] Maintenance Bureau, inspections were made on seven projects under t[illegible] the maintenance bureau. Investigations made of the [illegible] of the Maintenance Bureau, inspections were made on seven projects under t[illegible] Testing materials used at two prestressed concrete bean plants. Original [illegible] regular analyses completed on 126 jar samples which were inspected on [illegible] trial. Two inspectors from the Connecticut State Highway Depart- [illegible] to observe our testing facilities.

[illegible] in the Laboratory. Two men from the Peninsula Division continue [illegible], for training in aggregate grading and analysis. An [illegible], 1, was assigned to the Non-Mandatory Field Inspector on [illegible] personnel re-assignments were made in this same section.

[illegible] met with representatives of the Wire Reinforcement Institute to [illegible] welding of wire reinforcing in an experimental reinforcing mesh mat[illegible] [illegible]. Laboratory represented at a meeting of the Highway Research [illegible].

[illegible] and welding test prepared for test on reinforced with 4Sr [illegible] during the entire reporting period of 1960.

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of February 19 61

Division: RIGHT OF WAY ACQUISITION & TITLES

Bureau: Appraisals & Negotiations

The Division of Roads transmitted agreement forms covering 24 parcels, of which 15 were revisions.

GENERAL PROPERTY PARCEL MAPS

4 General Property Parcel Maps were approved and negotiations authorized.

APPRAISALS, NEGOTIATIONS, CONDEMNATIONS, ETC.

A total of 220 items were presented to the Commissioner for action, including:

159 Agreements
42 Condemnations
7 Judgments
3 Appeals
2 Deeds of Conveyance
7 Buildings sold at public auction

APPRAISAL ORDERS APPROVED

34 Appraisal Orders were approved with outside fee appraisers for a total of $9,850.

John A. Whitehead

MB:pb

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of February 19 61

Division: Right of Way Acquisitions & Titles
Bureau: Legal

I. STATISTICAL

Papers drawn in February

Condemnation

Complaints - 8
Orders to Show Cause - 8
Orders Allowing Plaintiff to File
Amendment to Complaint - 3
Amendments to Complaint - 3
Orders of Continuance - 4
Orders for Judgment and Appointint Commissioners - 17
Orders Confirming Appointment of Commissioners - 3
Orders Extending Time for Filing Report
of Commissioners - 21
Reports of Commissioners - 7
Orders Granting Compensation to Commissioners - 2
Petition to Pay Condemnation Award Into Court - 1
Order to Pay Condemnation Award Into Court - 1
Orders Denying New Trial - 3
Orders of Dismissal - 3
Notices of Motion - 2
Orders on Appeal - 4
Order Continuing Struck Jury and Fixing Date
for Trial - 1
Order to Dismiss Appeal for Lack of Prosecution - 1
Judgment - 1

Miscellaneous

Dismissal as to Defendant, State of New Jersey - 1
Orders Dismissing Cross-Claim of Defendant - 2
Order to Dismiss for Summary Judgment on
Behalf of Defendant - 1
Order Dismissing The Claim for Contribution
filed by Defendant - 1

Number of Deeds Approved - 126
Number of Titles Approved - 105

Court Appearances - 47

II. GENERAL ACTIVITIES

Court appearances appointment of condemnation commissioners;

II. GENERAL ACTIVITIES (Cont'd.)

various motions; hearings before condemnation commissioners; trials; preparation for court appearances; preparing legal briefs and memoranda; conferences in re same; conferences with various Deputy Attorneys General.

III. INTERDEPARTMENTAL SERVICES

Conferences with department heads with reference to various problems; opinion memoranda for Commissioner Palmer, department heads and employees; approving, disapproving and re-writing various legal papers and documents; recommendations for condemnation or settlement; trial preparation; brief writing and similar services.

IV. MISCELLANEOUS

Attending bidding; seeing that all necessary papers are prepared; dictating all court matters; numerous other matters which arise during the course of the month.

WJM/mmd

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of February 1961.

Division: Right of Way Acquisition & Titles
Bureau: Title

TITLE SEARCHING

79 searches and 105 continuation searches were completed throughout the State.

TITLE EXAMINING

103 title searches were examined and Reports of Title prepared.

LEGAL INSTRUMENTS

106 Legal instruments were prepared and forwarded to the owners or their attorneys for execution.

CERTIFICATE OF TITLE

105 Certificates of Title were prepared and submitted to the Department of Law for approval.

SETTLEMENTS

88 final settlements were made with property owners.

CONDEMNATIONS

27 Title Memorandums were prepared and forwarded to the Department of Law. 146 condemnation notices were served.

TITLE COMPANIES

50 deeds were delivered through the offices of title companies.

48 checks were delivered to title companies with instructions for settlement with the owners.

Edward H. Drake
Title Officer

Edward R. Dre...
Title Officer

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of February 1961

Division: Roads, Design and Construction
Bureau: Federal Aid Secondary

PLANS

Checking plans for the following projects:

Kiel Avenue, Morris County, S97(7)
Boonton Turnpike, Morris County, S186(3)
Vine Street Bridge and Approaches, Cumberland County, S199(2)
Haddon Avenue, Camden County, S132(4)

PREPARING SPECIFICATIONS

Vine Street Bridge and Approaches, Cumberland County, S199(2)
Haddon Avenue, Camden County, S132(4)

PROJECTS ADVERTISED

River Street, Bergen County, S200(2)
Gooseneck Bridge, Monmouth County, S235(1)

BIDS RECEIVED

River Street, Bergen County, S200(2)

CONTRACTS AWARDED

None

PROJECTS ACCEPTED AS COMPLETE

None

MISCELLANEOUS

Reviewing plans for proposed construction as requested by various Counties, checking As Built Plans for Final Payments, preparing Final Estimates, etc., on completed projects. Also preparing Final Vouchers on completed projects, making Final Inspections, etc.. Received Final Payment from Federal Government on F. A. S. Projects.

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of FEBRUARY 19 61

Division: Roads, Design & Construction
Bureau: Location & Design

FEDERAL AID

Programming of U-189(26) Item 243 - Rt. 4 Section 2 (R/W); I-80-4(11) Item 101 - Rt. 80 Section 4K (Constr.Demolition) I-280-6(2) Item 102; I-280-6(3), Item 103.

OFFICE ENGINEER

Processing Plans and Specifications for Rt. 7 (1953) Section 1A, from Passaic River to Rt. 17; Rt. 7 (1953) Section 2A, Second River to Centre Street; Rt. 18 (1953) Section 1A, from N.J. Turnpike to Milltown Road; Rt. US 22 (1953) Section 13B, Meisal Avenue to Michigan Avenue; Rt. 27 (1953) Section 3A, Stillwell Road and Rt. 27, Drainage; Rt. US 46 (1953) Section 10A, Intersection Improvements Baldwin Road and Beverwyck Road; Rt. 50 (1953) Section 1A and 2A, Cedar Swamp Bridge Creek and Approaches; Rt. 71 (1953) Section 2A, from West End Avenue to Stockton Avenue; Rt. 80, Section 5N from Rt. 17 to Green Street; Rt. US 206 (1953) Section 20A, Drainage at Stanhope; Rt. 208 (1953) Section 2B from Colonial Road to Ramapo Valley Road; Rt. 287, Section 3C Whitman Avenue to Rt. US 1; Rt. 287, Section 12A and 13A, Intervale Road to Vreeland Avenue;Parsippany Troy Hills, Boonton; Glassboro State College, Parking area; Rutgers University, Parking and Service area.

INTERSTATE

Rt. 78 Pluckemin to Berkeley Heights - Connection at Rt.287 submitted to Bur. Public Roads for approval; Rt. 78 - Annandale to Pluckemin - Annandale Interchange submitted to Bureau Public Roads for approval; Rt. 287 - Rt. US 22 to Pluckemin being broken up into contract for amounts of less than $4,000,000; Rt. 295 - Kresson Rd.to Rt. 73 - new study completed of Deer Road area.

MISCELLANEOUS

Public hearings scheduled for Rt. 208 Morlot Avenue, and Rt. US 22 for four jughandles, vicinity of Green Brook Hospital; Both 1960-61 Program items; Rt. US 1 - Woodbridge Ave. Grade Separation - Geometrics approved; Rt. 18 - Milltown Rd. and Cranbury Turnpike - Grade separation. Study plan completed, public hearing scheduled for March 23, 1961; Rt. 38 Airport Circle to Haddonfield Road. Schemes for Browning Road and Cuthbert Road Grade Separation completed; Rt. 322 - Williamstown to Folsom - Dualization - public hearing scheduled for March 9, 1961.

Month of FEBRUARY 19 61

Roads, Design & Construction

Location & Design

of U-1097(26) Item 243 - Rt. 4 Section 2 (R/W);
I-[illegible](12) Item 101 - Rt. 80 Section 4K (Comstr.Demolition)
I-[illegible]-6(2) Item 102; I-230-6(3), Item 103.

Preparing Plans and Specifications for Rt. 7 (1953) Section 1A,
Passaic River to Rt. 17; Rt. 7 (1953) Section 2A, Second
Centre Street; Rt. 18 (1953) Section 1A, from N.J.
to Midltown Road; Rt. US 22 (1953) Section 13B, Meisel
to Michigan Avenue; Rt. 27 (1953) Section 3A, Stillwell
and Rt. 27, Drainage; Rt. US 46 (1953) Section 10A,
Section Improvements Baldwin Road and Beverwyck Road;
18. 24 (1953) Section 1A and 2A, Cedar Swamp Bridge Creek and
Arterioches; Rt. 71 (1953) Section 2A, from West End Avenue to
Avenue; Rt. 80, Section 5N from Rt. 17 to Green Street;
Rt. 206 (1953) Section 20A, Drainage at Stanhope; Rt. 208
Section 2B from Colonial Road to Ramapo Valley Road;
Section 3C Whitman Avenue to Rt. US 1; Rt. 287,
12A and 13A, Intervale Road to Vreeland Avenue;Parsippany
Terra University, Parking and Service area.

Fluoridation to Berkeley Heights - Connection at Rt.287
to Bur. Public Roads for approval; Rt. 78 - Annandale
Annandale - Annandale Interchange submitted to Bureau Public
for approval; Rt. 287 - Rt. US 22 to Fluoridation being
up into contract for amounts of less than $1,000,000;
- Kreason Rd.to Rt. 73 - new study completed of Deer
area.

[illegible]

Form #AD-39

MONTHLY DIVISIONAL REPORT

Month of [redacted] 19 61

Division: of Design & Construction

Bureau: Road Construction

ROUTE	SECTION	LOCATION	PERCENTAGE COMPLETE Feb. 1st.61	Mar. 1st.
1 & 9	6A & 7A	Tonnele Ave. Traffic Circle to Fairview Avenue	68%	68%
9	12A & 13A	Drainage in the Cities of Linwood and Pleasantville	56%	61%
10	4B & 5A	Livingston Circle to Teed Road, Grading and Drainage	10%	11%
17	5B & 6A	Center Island Closing & Channelization, Borough of Ramsey	95%	95%
18	2	Clifton Avenue to New Jersey Turnpike	97%	97%
20	4-A	South Drive to Broadway, Paving and Bridges	92%	92%
21	1-B	Roosevelt Avenue to Highfield Lane	94%	94%
21	1-C	From Highfield Lane to So. Parkwy, Grading, Paving & Br.	77%	78%
22	10-A	Underpass at Mountain Avenue		0.01%
28	1A & 7A	Colidge Place to Bridge St. R.R. Bridge Reconstruction	30%	30%
28	3A & 4A	From East St. to Lincoln Ave., Widening, Resurfacing & Bridge	13%	14%
29	15-A)	Wilburtha Road to Scudders Falls		
129	1-A)	Delaware River Bridge to Scotch Road	73%	73%
35	2-A	Eisenhower Ave. to Curtis Point Drive, Paving & Grading	11%	15%
35	6A & 4A	From 1500' No. of Eatontown Traffic Circle, Widening	94%	95%
36	5-A	From Route 35 Traffic Circle to Oceanport Avenue	6%	7%
40	2-A	From County Road 540 to Route 48, Dualization and Bridge	14%	17%
47	10-A	Drainage in the City of Vineland		4%
54	1-A Etc.	From Hammonton to Buena, Paving, Drainage and Culvert		0.40%
69	5-A	From Back Brook to Rocktown, Pavement Widening & Resurfacing	37%	37%
73	2-A	So. Branch Pennsauken Creek to Route 38	86%	86%
78	2-J	From C.R. of New Jersey to Mulhockaway Creek, Paving	4%	4%
78	5-C	Demolition of Buildings, Troy Village	48%	48%
80	1B & 2L	Route U.S. 46 to Landing Road Interchange	3%	3%
80	2-E	Route U.S. 46 to Lending St. Bridge & Incidental Paving	97%	98%
80	2-H	Landing Road Interchange to Howard Blvd., Grading & Paving	47%	49%
80	2-J	U.S. 46 to Route 53, Grading, Paving and Bridges	28%	29%
80	4-B	Slaughterdam Rd. to Chobot Lane - Demolition of Buildings	35%	57%
80	5-G	Hackensack River Bridge Substructure, Grading & Drainage		0.04%
80-S	1 &)	U.S. 130 to Browning Road and Route 80-S Interchange to		
295	20G)	Copeley Road	98%	99%
82	1-A	L.V.R.R. Bridge and Pavement Reconstruction	65%	65%
95	1-A	Teaneck Creek to Northern R.R. of New Jersey	12%	13%
95	1-C	From Teaneck R.R. to Teaneck Creek	74%	74%
95	1-D	Overpass Bridge at Broad Avenue and Grand Avenue	51%	53%
95	1-E	Teaneck Road to Route 4, Grading, Drainage and Bridge	0.54%	0.7%
130	7A & 8B	From Interchange at Route 73 Township of Pennsauken	61%	62%
169	1	Constable Hook to Point Breeze	84%	84%
202	8-A	Dualization So. Br. Raritan River to Beechwood Drive	23%	23%
208	2-A Etc.	Interchanges Borough of Franklin Lakes	91%	91%
287	1-B	Interchange to Viaduct at Lehigh Valley Railroad	79%	80%
287	1C & 2B	Weston Canal Road to River Road Interchange	94%	94%
287	2-C	East of River Road to Stelton Road, Grading, Paving & Br.	12%	17%
295	1-C	Browning Lane to Broadway, Grading, Paving & Bridges	80%	80%
295	1-D	Route 47 to Route U.S. 130, Grading, Paving and Bridges	96%	96%
322	3-A	From 8th Street to Weymouth Road, Dualization	18%	23%
440	2-A	Clendenny Ave., to Danforth Avenue, Paving Widening	41%	41%
95	1-G	Route 4 to Fletcher Avenue, Grading, Paving & Bridges		0.11%

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of February 1961

Division: Design & Construction

Bureau: Road Construction

CONTRACT AWARDED IN FEBRUARY

Route 95, Section 1-H - Construction of Overpass Viaduct and Incidental Work, City of Englewood. Awarded to Poirier and McLane Corp. on February 6, 1961.

CONTRACTS ACCEPTED IN FEBRUARY

Route U.S. 1, 9 & 46(1953) Section 1-B & Route U.S. 46(1953) Section 16-A - Overpeck Creek to Jones Road. Accepted February 1, 1961.

Route 4(1953) Section 3-A - Barrier Curb, Resurfacing and Ramp Construction at Jones Road. Accepted February 7, 1961.

Route 30, Section 14-A - Overpass, Resurfacing, Barrier Curb and Pedestrian Overpasses. Accepted February 7, 1961.

Route 208, Section 3-A - Paving and Pedestrian Overpass at Maple Avenue. Accepted February 9, 1961. (Semi-Final)

Route 80, Section 2-G - Ramps at Mt. Hope-Dover Road Interchange and Pedestrian Overpass at Ramp "K". Accepted February 15, 1961.

Route 80, Section 4-A - Bridge over Relocated Route 20, Passaic River and Slaughterdam Road. Accepted February 24, 1961.

GENERAL NOTES

As of March 1, 1961, there were 49 projects underway, valued at $106,000,000. and being inspected by 176 men.

E. Y. Corson

E. Y. Corson
Supervising Engineer, Bureau of Road Construction

Section 1–4 – Construction of Overpass Viaduct and Industrial Link, [illegible] Contract awarded to Peltier and Delano Corp. on February 6, 1961.

[illegible] Section 1–3 (Route [illegible]) section 1–4 Route [illegible] Section 1–3 – [illegible] Opened Route 1, 1961. Opened February 1, 1961.

[illegible] Section 3–4 – Barrier Curb, Guard Rail and Ramp Connection [illegible] Opened February 7, 1961.

[illegible] Section 1–4 – Overpass, Resurfacing, Barrier Curb and Pedestrian [illegible]

[illegible] Section 3–4 – Paving and Pedestrian Overpass at Maple Avenue. [illegible] February 3, 1961. (Court-Final)

[illegible] Section 2–3 – Ramps at Int. Rope-Over Road Interchange and [illegible] Overpass at Ramp "E". Accepted February 15, 1961.

[illegible] – [illegible].

[illegible] Ramp 1, 1961, there were 19 projects underway, valued at $10,000,000. [illegible] Inspected by 176 men.

Form #AD-39

MONTHLY DIVISIONAL REPORT Month of February 19 61

Division: State Aid
Bureau:

GENERAL: Severe winter has caused unusually heavy damage to county and municipal roads and streets. Damage is so bad in some cases that sections of roads were closed to traffic until extraordinary repairs could be made.

COUNTIES: Road forces concentrating on snow removal and ice control during early part of period. Extraordinary repair and patching has been main effort in latter part of period.

Certificates covering expenditure of State Aid monies have been received from 13 counties. Programs for 1961 have been received from 3 counties. 14 items requiring office processing were received, processing has been completed on 14 items.

MUNICIPALITIES: State Aid construction has been at a standstill during period. Strenuous efforts have been initiated during latter part of period to repair and patch municipal roads and streets.

To date 1961 allotment of Herrick Act Funds are approved for Bergen, Cape May, Mercer, Salem, Union, and Warren Counties. A status report on all counties is attached as Annex 1.

527 items requiring office processing were received, processing has been completed on 273 items.

PERSONNEL: Most of Division's inspectors were on vacation, time off in lieu of overtime (XP) or on loan to other divisions.

oods and showers. Damage is so bad in some areas
of roads were closed to traffic until extra-

oad forces concentration on snow removal and ice control
during early part of period. Extraordinary repair and patching
has been main effort in latter part of period.

received from 73 counties. Programs for 1961 have been in
from 3 counties. Ll items requiring office processing were
pending, processing has been completed on 15 items.

State Aid construction has been at a standstill during period.
Previous activity has been limited during latter part of

e date 1961 allotment of Forest Aid funds are approved for
Berrien, Cape May, Mercer, Salem, Union, and Warren Counties. A
status report on all counties is attached as Annex I.

527 items requiring office processing were received, processed
ave been completed on 273 items.

Most of "Division Inspectors were on vacation, time off in
lieu of overtime (X) or on loan to other Divisions.

Annex 1 STATUS REPORT March 2, 1961

1961 Herrick Act Allotments

Atlantic County

No further word since original recommendations were made.

Bergen County

Approved December 16, 1960.

Burlington County

Discussed original recommendations with Senator Haines on December 15, 1960. No further word.

Camden County

Senator Cowgill's suggestions of February 1, 1961 were commented on under date of February 8, 1961. Nothing further.

Cape May County

Approved January 4, 1961

Cumberland County

No further word since original recommendations were submitted

Essex County

Senator Fox's suggestions of January 23rd were commented on under date of January 27, 1961.

Gloucester County

Senator Connery's suggested list of allotments was commented on under date of January 17, 1961

Hudson County

Senator Kelly's list of allotments was commented on under date of December 19,1960

Hunterdon County

No further word since original recommendations were submitted

Mercer County

Approved December 29, 1960

Middlesex County

No further word since original recommendations

Annex 1

Monmouth County

Senator Stout's suggestions of February 1, 1961 were commented on under date of February 8, 1961

Morris County

Senator Hillery's suggestions of December 13, 1960 were commented on under date of December 20, 1960

Ocean County

Senator Mathis's suggested list of allotments was commented on under date of December 28, 1960.

Passaic County

No further word since original recommendations were submitted

Salem County

Approved January 3, 1961

Somerset County

No further word since original recommendations were submitted. An allocation of $10,000 to Franklin Township was confirmed by the State Highway Commissioner under date of February 7, 1961.

Sussex County

No further word since original recommendations were submitted

Union County

Approved February 20, 1961

Warren County

Approved January 4, 1961

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